Index of Claims



Application/Control No.

10/665,860

Examiner

Longbit Chai

Applicant(s)/Patent under Reexamination

BARTAS, JOHN ALEXANDER

Art Unit

2131

| √ | Rejected |
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|   | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| N | Non-Elected  |
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| _ | Interference |

| A | Appeal   |
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| o | Objected |

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| Final     | Original   | 30/624   |          |              |                |  |  |          |          |          |     |
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| $\vdash$  | 9          | v  | $\vdash$ | $\vdash$     | ┢              | -  |  | $\vdash$ |          |          |     |
|           | 10         | v  | _        | $\vdash$     | -              |  |  | $\vdash$ | -        |          |     |
|           | 11         | v  |          | $\vdash$     |                |  |  |          |          |          |     |
|           | 12         | V  | H        | ┢            | _              |  | _  | $\vdash$ | _        |          |     |
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|           | 16         | v  | -        | _            | ı              |  |  |          | _        |          |     |
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|           | 19         | v  |          | $\vdash$     |                | $\vdash$   | $\vdash$   | $\vdash$ |          |          |     |
|           | 20         | v  |          | $\vdash$     |                | $\vdash$   | $\vdash$   | $\vdash$ |          |          |     |
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|           | 23         | Ė  |          | $\vdash$     |                | $\vdash$   | _  |          | _        |          |     |
|           | 24         | v  |          | _            |                |  |  |          |          |          | 1 1 |
|           | 25         | v  |          |              |                |  |  |          |          |          | 1 1 |
|           | 26         | V  |          | Г            |                |  |  |          |          |          | 1 1 |
|           | 27         | ~  |          |              | П              |  |  |          |          |          | 1   |
|           | 28         | 4  |          | Г            |                |  |  | П        |          |          |     |
|           | 29         | V  |          |              |                |  |  |          |          |          |     |
|           | 30         | V  |          |              |                |  |  |          |          |          |     |
|           | 31         | 1  |          |              |                |  |  |          |          |          |     |
|           | 32         | /  |          |              |                |  |  |          |          |          |     |
|           | 38         |  |          | L            |                |  |  |          |          |          |     |
|           | 34         | $ldsymbol{ld}}}}}}$ |          | L            | L              |  | L  |          |          |          |     |
|           | 38         |  |          |              | Щ              |  |  |          |          |          |     |
| $\square$ | 26         | _  |          | $oxed{oxed}$ | $oxed{oxed}$   | $ldsymbol{ld}}}}}}$ | $ldsymbol{ld}}}}}}$ | <u> </u> |          |          |     |
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| $\square$ | 38         | $ldsymbol{ld}}}}}}$ | Ш        | <u></u>      | <u> </u>       | Щ  | <u> </u>   | Щ        | <u> </u> | L        |     |
| $\square$ | 38         | <u> </u>   | _        |              | $\vdash$       | $\vdash$   | <u> </u>   | <u> </u> | <u> </u> | <u> </u> |     |
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| <u> </u>  | 41         | <u> </u>   | _        | <u> </u>     | $\vdash$       | Щ.   |  | <u> </u> | ·        |          |     |
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| <u> </u>  | 43         | _  | _        | <u> </u>     | _              |  |  | _        | _        | <u> </u> |     |
| <u></u>   | M          | $\vdash$   | <u> </u> | <u> </u>     | <u> </u>       | <b> </b>   | <u> </u> _   | _        | <u> </u> |          |     |
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| -         | 46         |  | L.       | <u> </u>     | <u> </u>       | <u> </u>   |  |          | L        | <u> </u> |     |
| <u></u>   | 47         | _  |          | <u> </u>     | -              | <u> </u>   | <u> </u>   | L_       |          | _        |     |
| -         | 18         | -  | <u> </u> | $\vdash$     |                | <u> </u>   | <u> </u>   | _        | L        | ļ        |     |
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| Final       | Original |   |          |           |          |          |              |          |              |          |
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|             | 18       |   | _        |           |          |          |              |          |              | _        |
|             | 52       |   |          |           |          |          |              | _        |              |          |
|             | 53       |   |          | L         | _        |          |              | Щ.       |              | _        |
| _           | 54       |   | L        |           | _        |          | L            |          |              | <u> </u> |
| <b> </b>    | 58       |   |          | _         |          | _        | _            |          | _            | _        |
|             | 56       |   |          |           | <u> </u> | _        | H            | _        |              | L-       |
|             | 57<br>58 |   |          |           |          |          | <u> </u>     | -        |              | -        |
|             | 59       |   | -        |           | -        |          | -            | $\vdash$ | _            | _        |
| -           | 60       | _ | Н        | ┝         | ┢        |          | ┢            | _        | _            | _        |
|             | 61       |   | $\vdash$ |           | $\vdash$ |          |              | -        |              | _        |
|             | 62       |   | H        |           |          |          | М            | Н        | Н            |          |
|             | 63       |   | Г        |           | Г        |          |              |          |              |          |
|             | 64       |   | Г        |           |          |          | П            |          |              |          |
|             | 65       |   |          |           |          |          |              |          |              |          |
|             | 66       |   |          |           |          |          |              |          |              |          |
|             | 67       | _ | L_       | <u> </u>  |          | ئـــا    |              |          |              |          |
|             | 68       |   | L        | <u> </u>  |          | L        | L            |          |              | L        |
|             | 69       |   |          | <u> _</u> | _        | <u> </u> | _            |          |              | _        |
| <u> </u>    | 70       |   | _        | <u> </u>  | <u> </u> | <u> </u> | _            | _        | _            | _        |
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|             | 76       |   | H        | $\vdash$  | $\vdash$ |          | -            | -        |              | ┢        |
|             | 77       |   |          |           |          |          |              |          |              |          |
|             | 78       |   |          |           |          |          |              |          |              |          |
|             | 79       |   |          |           |          |          |              |          |              |          |
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| -           | 83       | _ | _        | $\vdash$  | _        |          |              | _        | -            | <u> </u> |
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| -           | 85<br>86 |   | H        | $\vdash$  | -        | -        | $\vdash$     | $\vdash$ | <del> </del> | <u> </u> |
| -           | 87       |   | H        | -         | ⊢        |          | $\vdash$     | -        | -            | -        |
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|             | 92       |   |          |           |          |          |              |          |              |          |
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| Date                 |          |                              |               | Claim Date |               |          |              |                |         |          |          |          | ]  | CI   | aim  | Date   |   |             |          |                     |          |          |          |          |          |               |          |          |
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| 11                   |          |                              |               |            |               |          | <del>-</del> |                |         | 1        |          |          |  |  |  |  |   |             | -        | 1                   |          |          |          |          |          |               |          |          |
| 11                   |          |                              |               |            | '             | Final    | Original     |                | Т       |          | l        |          |  | ļ  |  |  |   | Final       | Original |                     |          | ļ        |          |          |          |               |          |          |
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|                      | 1        |                              |               | П          |               |          | ,81          |                | $\top$  |          |          |          | Г  | Т  |  |  | 1 |             | 101      |                     | ヿ        | $\neg$   |          |          | $\neg$   |               |          |          |
|                      | 1        |                              |               | П          |               |          | 52           |                | $\top$  | 7        |          | -        | $\vdash$   |  |  |  | 1 |             | 102      | $\vdash$            |          |          | ┪        |          | 一        | ┪             | 寸        |          |
| 1                    | $\top$   | Г                            |               |            |               | _        | 83           |                | +       | 7        |          |          |  | _  |  |  | İ |             | 103      |                     | ╛        | $\dashv$ | $\neg$   | $\neg$   | $\dashv$ |               | 7        |          |
|                      | $\top$   | $\vdash$                     | H             | Н          |               |          | 54           |                | +       | 1        |          |          |  | $\vdash$   | -  | $\vdash$   |   |             | 104      | $\vdash$            | $\dashv$ | _        | $\neg$   |          |          | _             | $\dashv$ | _        |
| ++                   | +        |                              |               | Н          |               | 7        | 58           | $\dashv$       | +       | +        |          |          | $\vdash$   | Н  | $\vdash$   | -  | 1 |             | 105      | -                   | ┪        | $\dashv$ | $\neg$   |          | -        | $\dashv$      | $\dashv$ | -        |
| +                    | +        |                              | -             | H          | l ⊢           |          | 56           | $\dashv$       | ╅       | 7        |          |          | ⊢  | ╁  | -  | -  | Ì |             | 106      |                     | $\dashv$ | +        | $\dashv$ |          |          | ᆉ             | $\dashv$ |          |
|                      | ╁        | $\vdash$                     | ┢             |            | <del> -</del> | -        | 57           | $\dashv$       | ┰       | ┪        | _        | _        | ┢  | <del> </del>                                     |  | -  |   |             | 107      | $\vdash$            | $\dashv$ | $\dashv$ | $\dashv$ |          |          | $\dashv$      | -        | -        |
|                      | +        | H                            | $\vdash$      | Н          | -             | -        | 58           | $\dashv$       | +       | +        | _        | -        | $\vdash$   | -  |  | -  |   |             | 108      | $\vdash$            | ᆉ        | $\dashv$ |          | -        | $\dashv$ |               | -        | =        |
| <del>- - -</del>     | +        | $\vdash$                     | $\vdash$      | Н          | -             | -        | 59           | -              | +       | +        | -        |          | -  | ┢  |  |  |   |             | 109      | ┯                   | $\dashv$ | -        | $\dashv$ | -        | $\dashv$ |               | $\dashv$ | $\dashv$ |
| <del>- - </del> -    | +-       | $\vdash$                     | $\vdash$      | $\vdash$   | -             |          | 60           | +              | +       | ┥        | $\dashv$ | -        | <del> </del>                                     | ╁  | $\vdash$   | $\vdash$   | ł |             | 110      | $\vdash$            | $\dashv$ | -        | -        | $\dashv$ | $\dashv$ | -             | -        | -        |
| ++                   | +        | -                            | -             | $\vdash$   | -             | $\dashv$ | 61           |                | +       | +        | $\dashv$ | -        | $\vdash$   | -  | -  | -  | ł |             | 111      | $\vdash$            | -        | $\dashv$ | -        | -        |          | $\dashv$      | $\dashv$ | -        |
| ++                   | +-       | -                            | -             | H          | -             |          | 62           | +              | +       | +        |          |          | ├-   | ├-   | $\vdash$   | ⊢  |   |             |          | $\vdash$            | -        | $\dashv$ |          |          | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
|                      | +-       |                              |               | -          |               | +        |              | +              | +       | +        |          | -        | -  | ₩  | <del> </del>                                     |  | ł | -           | 112      |                     | -        |          |          | $\vdash$ | $\dashv$ | $\dashv$      | $\dashv$ | $\dashv$ |
|                      | +        |                              | $\vdash$      | Н          | -             |          | 63           | +              | +       | +        | -        |          | ⊢  | -  |  | _  | ł |             | 113      | $\vdash \downarrow$ |          |          | $\dashv$ |          | $\vdash$ |               | -        | _        |
|                      |          | _                            | <u> </u>      | -          | l ⊢           | _        | 64           | $\perp$        | +       | 4        |          |          | <u> </u>   | <u> </u>   | <u> </u>   | ļ  | l |             | 114      |                     | 4        | _        | 4        |          |          |               |          |          |
| $\dashv \vdash$      |          | <b> </b>                     | <b> </b>      | Щ          | _             |          | 65           | $\dashv$       | $\bot$  | 4        |          |          | <u> </u>   | <u> </u>   | <u> </u>   | <del> </del>                                     | l |             | 115      | $\sqcup$            |          | _        | _        |          |          |               | _        | _        |
|                      | 4        | <b>.</b>                     | <u> </u>      | Ш          | l             | ļ        | 66           | $\perp \perp$  | 4       | 4        | _        | _        |  | <u> </u>   | ⊢  | <u> </u>   | Į |             | 116      | $\sqcup$            |          | _        |          |          | $\Box$   | _             |          |          |
| 44                   | $\bot$   |                              | _             | Ш          | L             |          | 67           |                | 1       | 4        | _        | L        | <u> </u>   | $ldsymbol{f eta}$                                | <u> </u>   | <u> </u>   | Į |             | 117      | Ш                   |          | $\dashv$ |          | Ш        | _        |               |          | _        |
| $\perp$              | $\perp$  |                              |               | Ш          | L             |          | 68           |                | ⊥       |          |          |          | <u> </u>   |  |  | _  | ļ |             | 118      |                     |          |          |          |          |          |               |          |          |
|                      |          |                              |               |            |               |          | 69           |                | $\perp$ |          |          |          |  | <u> </u>   |  |  | ] |             | 119      |                     |          |          |          |          |          |               |          |          |
|                      |          |                              |               |            |               |          | 70           |                |         |          |          |          |  |  |  |  |   |             | 120      |                     |          |          |          |          |          |               |          |          |
|                      |          |                              |               |            |               |          | 71           |                | Т       | П        |          |          |  |  |  |  | ĺ |             | 121      |                     | T        | $\neg$   | $\neg$   |          |          |               | $\neg$   |          |
|                      | T        |                              |               | П          |               |          | 72           |                | Т       | T        |          |          |  | Г  |  |  | Ì |             | 122      |                     |          | コ        | T        |          |          | 一             | $\neg$   |          |
|                      |          |                              |               |            |               |          | 73           |                | $\top$  | T        |          |          | Г  |  |  |  | ĺ |             | 123      |                     |          |          |          |          |          |               | $\neg$   |          |
|                      | _        |                              |               |            |               |          | 74           |                | $\top$  | 7        |          |          |  | $\vdash$   |  | Г  | ĺ |             | 124      | $\Box$              |          |          |          |          |          |               |          |          |
|                      | _        |                              |               | $\vdash$   |               |          | 75           |                | $\top$  | 7        |          |          |  |  |  | Г  | 1 |             | 125      |                     | 寸        | _        |          |          |          | $\neg$        | $\neg$   |          |
|                      | $\dashv$ |                              | _             | $\vdash$   |               |          | 76           | -              | ╅       | ┪        |          |          |  | ┢  | _  | $\vdash$   | 1 |             | 126      | H                   | _        | $\dashv$ | _        |          |          | _             | $\neg$   | _        |
|                      | ┪—       | _                            |               | $\vdash$   |               |          | 77           |                | +       | 7        |          |          | -  | Ι-   |  |  |   |             | 127      | $\vdash$            | ┪        | ┪        | $\neg$   |          | -        |               | ᅱ        | $\dashv$ |
|                      | +        | $\vdash$                     | ┢             | Н          |               | _        | 78           | +              | +       | +        |          | -        | ┢  | ╁  | $\vdash$   | $\vdash$   | 1 |             | 128      | $\vdash$            | 寸        | -        | -        | Н        | -        | _             |          |          |
| <del>-   -  </del> - | +        | -                            | -             | $\vdash$   |               | _        | 79           | $\dashv$       | +       | ┪        |          |          | -  | -  | -  | $\vdash$   | 1 |             | 129      | $\vdash$            | +        | $\dashv$ | $\neg$   |          | -        | -             | $\dashv$ | $\dashv$ |
|                      | +        | H                            | -             | H          | -             |          | 80           | +              | ┿       | ┪        |          |          | ⊢  | <del>                                     </del> |  | ┢  |   |             | 130      | $\vdash$            | +        | $\dashv$ | $\dashv$ |          | -        | -             | -        | $\dashv$ |
| -                    | ╫        | -                            | ⊢             |            | -             |          | 81           |                | +       | +        | -        | _        | -  | -  | -  | ⊢  |   |             |          | $\vdash$            | $\dashv$ | $\dashv$ |          |          | -        |               | -        | -        |
|                      | -        | -                            | ┝             | $\vdash$   | <del> -</del> |          | 읈            | -              | +       | +        | -        | -        |  | -  |  | ⊢  |   |             | 131      | $\vdash$            | $\dashv$ | $\dashv$ |          |          |          | -             | -        |          |
| ++                   | +        | -                            | -             | $\vdash$   | -             | -        | 82<br>83     |                | +       | +        |          |          | _  | $\vdash$   |  | -  | l | <del></del> | 132      |                     | -        | $\dashv$ | -        |          |          | $\dashv$      |          |          |
|                      | +        | $\vdash$                     | $\vdash$      | $\vdash$   | -             |          |              | +              | +       | +        | -        |          |  | $\vdash$   | $\vdash$   | ├  | ł |             | 133      | $\vdash$            | _        | -        | -        | Щ        |          | 4             |          | _        |
|                      | +-       |                              | -             | $\vdash$   | -             |          | 84           | +              | +       | +        | -        |          |  | $\vdash$   | ├  | ├—   | l |             | 134      | $\vdash \vdash$     | -        | _        | _        | Щ        |          |               |          | _        |
| ++                   | +        | -                            | <del> </del>  | $\vdash$   | -             |          | 85           | +              | +       | +        |          |          | $\vdash$   | ├-   |  | ├_   | ł |             | 135      | $\vdash$            |          | -        | _        | $\vdash$ |          | $\dashv$      |          |          |
| ++                   | +        | <u> </u>                     |               | $\vdash$   |               |          | 86           |                | +       | 4        |          |          | $\vdash$   | <u> </u>   | <u> </u>   | <u> </u>   | l |             | 136      | $\vdash \vdash$     |          |          |          | Ш        |          | $\rightarrow$ | _        | _        |
|                      |          | _                            | -             | <b> </b>   | -             | _        | 87           | -              | +       | 4        | _        |          | ⊢  | <u> </u>   | <u> </u>   | <u> </u>   | 1 | L           | 137      | $\sqcup$            | _        | _        |          |          |          | _             |          | _        |
|                      | +        | $ldsymbol{ldsymbol{\sqcup}}$ | <u> </u>      | Ш          |               | _        | 88           | $\perp$        | $\bot$  | 4        |          |          |  | <u> </u>   | <b> </b>   | <u> </u>   | ł |             | 138      | $\sqcup \downarrow$ | ļ        |          |          |          |          |               |          | $\Box$   |
|                      | $\bot$   | L                            | L             | Ш          | l L           |          | 89           |                | $\perp$ | 4        |          | _        | <u> </u>   |  | L  | L_   | Į |             | 139      |                     |          |          |          |          |          |               |          |          |
| $\bot\bot$           |          | <u> </u>                     | <u> </u>      | Ш          |               |          | 90           |                | $\perp$ | _        |          |          | <u></u>  |  | <u> </u>   | <u> </u>   | Į |             | 140      |                     |          |          |          |          |          |               |          |          |
| $\bot \bot$          |          | L                            | <u> </u>      | Ш          | L             |          | 91           |                |         |          |          |          |  |  | Ĺ  | L  | Į |             | 141      | $\Box$              |          |          |          |          |          |               |          |          |
|                      |          |                              |               |            |               |          | 92           | $\perp \Gamma$ |         |          |          |          |  | Ĺ  |  |  | ] |             | 142      |                     |          |          |          |          |          |               |          |          |
|                      |          |                              | L             |            |               |          | 93           |                |         | Ţ        |          |          |  |  |  |  | ] |             | 143      | $\Box$              |          | $\neg$   |          |          |          | $\neg$        | $\neg$   |          |
|                      |          |                              |               |            |               |          | 94           |                | T       | 7        |          |          |  | Г  |  | Г  | 1 |             | 144      | П                   | ヿ        | ヿ        |          |          |          | $\neg$        | $\neg$   |          |
|                      | 1        |                              |               |            |               |          | 95           |                | 1       | $\top$   |          |          | Г  | Γ  | Г  | Г  | 1 |             | 145      | $\Box$              | $\neg$   | $\neg$   |          |          | $\neg$   |               | $\neg$   |          |
|                      | 1        |                              | Г             |            |               | 7        | 96           | $\neg \vdash$  | $\top$  | 7        | $\neg$   |          | Т  | _  | <del>                                     </del> | $\vdash$   | 1 |             | 146      | $\Box$              | 寸        | 一        | _        | _        |          | $\dashv$      | $\neg$   | _        |
| $\neg \neg$          | 1        |                              |               | П          |               |          | 97           | $\dashv$       | $\top$  | $\dashv$ |          | $\vdash$ |  | T  | <del>                                     </del> | $\vdash$   | 1 |             | 147      | $\vdash$            | -        | -        |          | $\vdash$ | $\dashv$ | $\dashv$      | -        |          |
| 11                   | $\top$   |                              | $\overline{}$ | П          |               | $\dashv$ | 98           |                | +       | 7        |          | _        | <del>                                     </del> | $\vdash$   | $\vdash$   | <del>                                     </del> | 1 |             | 148      | $\vdash$            | ᅱ        | $\dashv$ | _        | Н        |          | $\dashv$      | -        | -        |
| 11                   | +        |                              | $\vdash$      | П          |               | -+       | 99           |                | +       | +        |          | -        | $\vdash$   | $\vdash$   |  | $\vdash$   | 1 | <u> </u>    | 149      | $\vdash$            | ᅱ        | $\dashv$ | $\dashv$ | $\vdash$ |          | $\dashv$      | $\dashv$ |          |
| ++                   | +-       |                              | $\vdash$      | $\vdash$   |               |          | 100          | -              | +       | +        | $\dashv$ | -        | ┢  | $\vdash$   | ┢  | -  | 1 |             | 150      | $\vdash$            |          | ᅱ        | -        |          |          | $\dashv$      | -        |          |
|                      |          |                              | _             | ш          | _             |          | 100          | L              |         | _(       |          | Щ.       | L  | Щ  |  | <u> </u>   | J | L           | 130      | ш                   |          |          |          | Ш        |          |               |          |          |